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# NUMBERS & ODDITIES #
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-::: N&O #14 :::-

Hello everyone. First the bad news. Jascha has to leave us because of personal reasons and I am looking for someone who can handle the logs I'd like to thank Jascha for all the work he has done during the past 14 months. Good luck and Auf Wiedersehen, Jascha!

* NUMBERS AND ODDITIES HOME PAGE *

Because I regularly get requests for copies of older N&O's, I thought that it might be handy if you could simply download them. As many of you already know, the Numbers and Oddities home page is now up and running and much to my surprise I noticed that the two sites were visited over 500 times in less than 3 weeks. Cool!

I started a site at GeoCities but that one is often hard to reach during the European evenings, so I installed another one here in the Netherlands, which is easier to reach for the Europeans.

Besides a number of links to WUN and other ute and numbers web sites, I have also added a download page. You can download all N&O files and the ENIGMA control list from that page. I also added all the old N&O's from 1995 plus the various articles about the FAPSI stations that appeared in the Digital Review column. The file names are: N&O #00A, #00B, #00C, and #00D. So, check it out and send me your comments.

The URLs:

<http://home.luna.nl/~ary>
<http://www.geocities.com:80/CapeCanaveral/Station/5847/index.htm>

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AC promised you a list of numbers in Eastern European languages. So, here are the figures 1-0 in the various languages. Corrections and additions are most welcome.

Slovak / phonetic

jeden	dva	tri	ötyri	p%t'	öest'	sedem	osem	dev%t'	nula
jeden	dva	tri	styri	pat	sest	sedem	osem	devat	noella

Czech / phonetic

jeden	dva	tri	ctyri	pet	öest	sedm	osm	devet	nula
jeden	dva	tri	ctyri	pet	sest	sedm	osm	devet	noella

Polish / phonetic

jeden	dwa	trzy	cztery	piec	szesc	siedem	osiem	dziewiec	zero
jeden	dwa	trzy	cztery	piec	szesc	siedem	osiem	dziewiec	zero

Serb-Croat / phonetic

jedan	dva	tri	cetiri	pet	öest	sedam	osam	devet	nula
jeddan	dwa	trie	tsjetirie	peet	sjest	seddam	ossam	dewet	noella

Hungarian/ phonetic

egy	ketto	harom	nËgy	ot	hat	hËt	nyolc	kilenc	nulla
edj	ketteu	harom	needj	ot	hat	het	njolts	kilents	noella

Russian (pronounced differently by various numbers stations)

adjien	dwa	trie	tsityrji	pjat	sjest	sjem	wosiem	djewiet	nul
adean	dva	tri	chetirye	pyet	shest	syem	vosem	devyet	noll
adim	dva	tri	chedearia	byad	shest	shin	vojim	devierd	noll

Roumanian

unu	dobi	trei	patru	cinci	sase	sapte	opt	noua	zero
-----	------	------	-------	-------	------	-------	-----	------	------

-o-o-o-o-o-o-o-o-o-o-

★ AGENCY PROFILE: CHINA ★

A couple of years ago a Chinese numbers station surfaced on 11028 kHz. The station most probably transmitted from mainland China and was definitely not New Star that broadcasts from Taiwan. It looks like China uses satellites for its military/intelligence comms as I have never seen any log in my life.

::: Peoples Liberation Army (PLA)

The Second Department of the PLA is responsible for collecting intelligence. The agents operate from the various Chinese embassies and as under cover agents in foreign countries. The 'Autumn Orchid' branch is assigned to Macao and Hong Kong. Their main tasks are the gathering of information about political movements and the local media.

The Third Department is responsible for monitoring the telecommunications of foreign armies. They have sigint stations all over the country.

The General Political Department (GPD) is responsible for discipline, indoctrination and political education within the PLA.

::: Central Security Regiment, the 8341 unit

The Central Security Regiment, or '8341 Unit', was responsible for the security of the Chinese leaders, but was deactivated in the late seventies.

::: Ministry of State Security (MSS / Western Garden)

The Ministry of State Security was formed in 1983 with the merger of the entire Central Investigation Department and the counter-intelligence department of the Ministry of Public Security. The Central Investigation Department was known as Xiyuan, or Western Garden, an organ which came directly under the CPC Central Committee. The MSS is the primary Chinese HUMINT collection organization.

Signals Intelligence (SIGINT). China monitors radio traffic from all countries in the region. There are monitoring stations all over the country. One of the largest is located on Hainan Island. This station monitors US naval activities in the region. The facilities on the island include satcom intercept gear. Another satcom intercept site is located near Beijing.

The MSS has a number of bureaus. What follows is a brief description of the bureaus.

- First Bureau (Domestic)

The First Bureau operates within China and recruits people for the MSS. They also accomodate their agents.

- Second Bureau (Foreign)

The Second Bureau is responsible for operations abroad. Xinhua, well known to many dxers is one of the companies that is used to provide a cover for Chinese agents. The bureau also analyzes the collected intelligence and recruits agents in foreign countries.

- Third Bureau (Hong Kong, Macao, Taiwan)

The Third Bureau is responsible for operations in Macao and Taiwan and Hong Kong. The main activities of the Bureau include operations in the above mentioned areas. The MSS increased its activities against pro-democracy elements in Hong Kong in 1997 when Hong Kong was returned to China. 'Winter Chrysanthemum' is a department which collects data about political activities in the three areas.

- Fourth Bureau (Technology)

The Fourth Bureau is responsible for the technology. They make all kind of devices like wiretapping-, photo-, sigint-, and tracking devices.

- Fifth Bureau (Local Intelligence)

The Fifth Bureau is responsible for directing and coordinating the work of local departments and bureaus of the MSS.

- Sixth Bureau (Counterintelligence)
The Sixth Bureau's primary task is to counter foreign anti-communists activities in China.
- Seventh Bureau (Circulation)
The Seventh Bureau checks and verifies incoming intelligence and submits the reports to the various departments.
- Eighth Bureau (Institute of Contemporary International Relations)
The Eighth Bureau is one of the largest institutes for research on international relations.
- Ninth Bureau (Anti-Defection and Counter-Surveillance)
The Ninth Bureau is responsible for countering efforts by foreign intelligence services to recruit MSS or other security personnel.
- Tenth Bureau (Scientific and Technological Information)
The Tenth Bureau collects economic, scientific and technological intelligence.
- Eleventh Bureau (Computers)
The Eleventh Bureau is responsible for analyzing intelligence gathered with the help of computers, and operating the computer network of the MSS. It also collects information on advanced electronic systems from the West, and protects the information systems of the Chinese secret service from attacks by foreign intelligence agencies.
- Foreign Affairs Bureau
The Foreign Affairs Bureau coordinates cooperation with foreign intelligence organizations.
- Xinhua - New China News Agency
Xinhua is China's largest news agency. They transmitted Chinese news via shortwave for many years and is now active on the Internet. The agency also takes part in intelligence operations. It provides analysis of news from all over the world and acts as cover for MSS agents.

Research:

Laogai Research Foundation, Federation of American Scientists, Amnesty International reports, various newspapers.

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* MORSE STATIONS *

::: M23

Guy Denman reports that the unid morse station mentioned in N&O #13 on 10155 at 2137 is M23, the actual ID is 532. It is also on at 0730 on 9155 kHz.

::: M12 is interesting on Wednesdays, it sends the same message throughout the day to 5 different IDs.

::: ISRAELI NAVY HAIFA / 4XZ [M22]

Although 4XZ is not a numbers station, ENIGMA still lists it as being one. So I thought that the following article would be of interest.

The Israeli Navy in Haifa, callsign 4XZ, currently runs the following two separate CW broadcasts:

Broadcast 1	Broadcast 2
2800	2680
4241	4331
8437	6379
10046	9263
12984	11170
17050	13546
	14686
	16317
	18549

4241 kHz is subject to heavy QRM in Europe from Rogaland Radio, callsign LGW, and 12984 kHz by a psk transmission.

There is regular traffic on both broadcasts consisting of three distinctive types:

- Traffic in offline encrypt (5 letter groups),
- Traffic in what is assumed to be Hebrew morse. If copied as International morse it looks like:

"brq am ikriz soea mjdio qealiwio jm ohrdim jl pni qeabiwio jm mrw
esinei, dbrie sl drji j erre cjro bjelm ohrdi. orb , mso bn ueb,
mtemki iodet otero aemr btgebo ki la itkn

3. sepu bit omspu ojlien bdimec, hiim kon, aemr ki cireb oknct lodih
mseretio at ario drji mjid jl liqwei bjirki omdino. pesj mesht ainne
wrik loctebb bbit omheqqim apile iem ahd esjo aht, amr osepu kon,
eoseeo at ocgido"

AnyWUN with knowledge of Hebrew care to comment?!

- c. Surface analysis/prognosis in WMO FM46-IV coding. (This is NOT 5 figure offline encryption). Since this is one of the few stations left transmitting this code a brief summary of how it works follows.

The broadcast speed is normally 23 wpm for items a. and b. rising to 28wpm for c.

::: WMO FM46-IV International Analysis Code aka IAC Fleet, being the abbreviated form of FM45-IV for marine use.

```
65556 11188 01000 00036
99900
83010 33040
83014 32803
83014 34822
85022 33915
99922
44012 33850 33845 33840 33340 33135 32530 32029
44016 34050 34345 34140 34135 34030 33826 33528 33228
      33125 32522 32021
44016 32005 32505 33004 33300
44016 34500 34705 34810 34815 34620 34725 34730 34835
      34740 34645 34850
44020 33520 33315 33510 34011 34318 34021 33520
19191
```

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65556      Prognosis follows (if 10001 is a Surface Analysis)

11188      Position groups in form QLaLaLoLo
           LaLa = latitude      LoLo = longitude
           Q = quadrant. In this case = 3 means North latitude, 0-90
           East. 111xx usually seen as 333xx.

0 10 00     DTG UTC for observed data used as basis - 10th/0000z

000 36      Nr of hours to be added to previous DTG to obtain valid
           prognosis time. - 36 hrs.

99900      Pressure systems follow

8 3 0 10    Trough 1010mb      at (33040) 30N 40E
8 3 0 14    Trough 1014mb      at (32803) 28N 03E
8 3 0 14    Trough 1014mb      at (34822) 48N 22E
8 5 0 22    High 1022mb      at (33915) 39N 15E
```

If the second digit in the 8xxxx string is 1 a Low is indicated. Third digit in the string is 0 - pressure character - no specification.

(99911 Frontal systems - not used this msg)

99922 Isobars follow

44xxx These groups indicate pressure (xxx) of isobar followed by a number of positions through which that isobar passes.

19191 Signifies end of message.

Thanks to John for compiling the two frequency lists and Day for the rest of the article.

-0-0-0-0-0-0-0-0-0-0-

* VARIOUS MODES *

::: NEW TONE STATION

Also from Guy comes the following news:

'I thought you might be interested in a new Tone station that has appeared. It was on about 3 weeks ago one evening moving all over the band. It has now started testing on 8100 at 0700 0800 0900 1200 & 1300, Wednesday, Thursday & Friday. It transmits for 15 minutes, the tones are much deeper than XPH.

It is the same family as the Slovak Man S10E/M10E. I know this for certain as they have been testing for several weeks on the same frequency. The first test was in morse sending single 5 figure groups 00000 to 99999. The M10E morse is very distinctive, that is why I know which family it belongs to. They also did some testing on the same frequency on RTTY at 75 Baud. They just sent RYRYRYRY for 15 minutes.'

::: UNID STATION

Henry copied an unid odd station in Australia. The frequency is +/- 21257 kHz. He comes up at night (Australian night) around 0900-1400 UTC with short stops.

Bearing is 355 which is across Hong Kong/Korea/Russia. Begins each cycle with three musical notes the merges into some sort of packet. When he sends ? traffic the musical notes are closer together. Has anyone heard and/or identified this one ??

::: FAPSI intercepts

13452 2240 JMS 00127

13556	2009	HZW	00117
13935	1240		00098
14402	1200		00104
14731	1515	BPA	00116
14843	2230	JMS	00127
14941	1810	WNY	00139
16218	2000	HZW	00117
16223	0940	UXW	40034
16256.9	1708	RJA	90051
16285	0840	RSZ	00177 *)
17416	1735	KRN	00178
17460	0930		10075
17473	0940		10163
17475	0840	RPO	80038
18332	0820		10042
19088	1800	WNY	00117
19354	0830	RPO	80038
19414.8	1019	CAZ	50002
20170	1020	CAZ	50002
20925.2	0749		60089

*) this is an interesting one, logged by Murray:

16285 FAPSI 0840 RTTY 75/500 w/46s RSZ QTC to 5LGs link 00177
 18 May 99. The link id for RSZ has always been 00099. Did FAPSI
 made a mistake or has RSZ a new link id?

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* VOICE STATIONS *

::: G04

Hans-Friedrich Dumrese's monthly G04 analysis

02.05.99 2005Z 5.570 kHz
 2035Z 5.470 kHz

Message : 32158 75123 95201 45212 96300 75214 96545 30254 75487 95125
 32121 85210 95457 78545 63212 41200 95458 45212 45210 95458
 12125 62121 62125 45210 62125 85458 96545

Analysis: Frequent groups : 45210 2x
 45212 2x
 62125 2x
 95458 2x
 96545 2x

First two figures : 12125 Last three figures: 32121
 30254 62

32121	75123
158	12125
41200	62 2x
45210 2x	125
212 2x	32158
62121	41200
125 2x	95201
63212	45210 2x
75123	85
214	45212 2x
487	63
78545	75214
85210	30254
458	96300
95125	95457
201	85458
457	95 2x
458 2x	75487
96300	78545
545 2x	96 2x

History : Sommer 2005 2035

Winter 2105 2135

01/96	3227	3127
02/96	3409	3309
03/96	3419	3319
04/96	4581	4481
05/96	4165	4065
06/96	4340	4240
07/96	3935	3835
08/96	4165	4065
09/96	3930	3830
10/96	3280	3180
11/96	3270	3170
12/96	3285	3185
01/97	3230	3130
02/97	3245	3145
03/97	3275	3175
04/97	3936	3836
05/97	4245	4145
06/97	4376	4276
07/97	3930	3830
08/97	3935	3835
09/97	3915	3815
10/97	3315	3215
11/97	3265	3165
12/97	3255	3155

01/98	3255	3155
02/98	3265	3165
03/98	4435	4335
04/98	4745	4645
05/98	5410	5310
06/98	5730	5630
07/98	5840	5740
08/98	5755	5655
09/98	5310	5210
10/98	4685	4585
11/98	3940	3840
12/98	3380	3280
01/99	3415	3315
02/99	3905	3805
03/99	4520	4420
04/99	5310	5210
05/99	5570	5470

::: ENGLISH LADY [E17]

Eddy Waters reports a new frequency for the English Lady. he copied her on Wed 12 May on 10884 USB at 0730 UTC.

-0-0-0-0-0-0-0-0-0-0-

* SCHEDULES *

Andy Bell <andy.bell@sabwabco.co.uk> sent me the May skeds for V7 and XPH. It seems that historic skeds are being used again.

::: V7 UTC Morning Schedule for May 1999 is as follows:
Schedule Number 725

Tuesdays & Thursdays

0600z - 10713 kHz

0620z - 12213 kHz

0640z - 13513 kHz

The same schedule number was in use in May 1998 using the frequencies: 10711 kHz; 12211 kHz & 13511 kHz - note just 2 kHz difference from May 1999. By the same rationale the schedule number for June will be 118.

::: XPH UTC Morning Schedule for May 1999 is as follows:
Schedule Number 546

Tuesdays & Fridays

0600z - 11554 kHz

0620z - 13454 kHz

0640z - 14654 kHz

::: E5/V5/V2/M8

Bob Roehrig <broehrig@admin.aurora.edu> updated the Counting Station V2, and M8 schedules. Please keep Bob informed about any changes that you may find.

E5/V5 COUNTING STATIONS (TCS) BY TIME. (updated: 23 May 1999)

UTC	KHZ	M	T	W	T	F	S	S	LANG	NOTES
=====	=====	=	=	=	=	=	=	=	=====	=====
0000	4670.0				X	X	X	X	EE	//5812
0000	5812.0				X	X	X	X	EE	//4670
0000	4640.0			X	X	X			EE	//5046
0000	5046.0			X	X	X			EE	//4640
0100	13452.0			X		X			SS	//15651
0100	15651.0			X		X			SS	//13452
0100	11491.0	X		X	X		X	X	EE	//14421
0100	14421.0	X		X	X		X	X	EE	//11491
0200	11491.0		X		X	X			SS	//14421
0200	14421.0		X		X	X			SS	//11491
0200	11491.0	X		X	X		X	X	EE	//14421
0200	14421.0	X		X	X		X	X	EE	//11491
0300	12300.5		X				X		SS	//14421
0300	14421.0		X				X		SS	//12300.5
0300	10665.0	X			X				SS	//11491
0300	11491.0	X			X				SS	//10665
1200	13906.0			X				?	EE	//15732
1200	15732.0			X				?	EE	//13906
1200	14577.0			X				?	EE	//16198
1200	16198.0			X				?	EE	//14577
1200	15651.0			X	X	X			EE	//17390
1200	17390.0			X	X	X			EE	//15651
1300	14739.0	X				X		?	EE	//16198
1300	16198.0	X				X		?	EE	//14739
1400	5407.0							?	EE	//7836
1400	7836.0							?	EE	//5407
1400	13555.0					?		?	EE	//15732
1400	15732.0					?		?	EE	//13555
1400	15895.0		?						EE	
1500	11072.0		?						EE	//12175
1500	12175.0		?						EE	//11072
1600	10423.0						X		EE	//15822
1600	15822.0						X		EE	//10423
1700	13450.0					X		X	EE	//14448
1700	14448.0					X		X	EE	//13450
1700	15822.0		X						EE	
1700	7585.0		?	?	X				EE	//9219
1700	9219.0		?	?	X				EE	//7585
1700	8085.0	X			X				EE	//9219

1700	9219.0	X		X		EE	//8085
1800	14448.0			X		EE	
1800	11072.0			X		X EE	//13465
1800	13465.0			X		X EE	//11072
1800	8080.0			?		EE	//9160
1800	9160.0			?		EE	//8080
1800	13444.0	X				X EE	//14905
1800	14905.0	X				X EE	//13444
1900	11072.0					? EE	//13465
1900	13465.0					? EE	//11072
1900	6970.0			?		EE	
1900	8085.0	?				EE	//9219
1900	9219.0	?				EE	//8085
2000	11491.0					X EE	
2000	7836.0	?				EE	//9090
2000	9090.0	?				EE	//7836
2000	12197.0	X				EE	
2100	7620.0			?		? EE	
2100	10583.0			X		EE	
2200	10423.0					X EE	//12197
2200	12197.0					X EE	//10423
2200	17200.0					X EE	
2200	9219.0			?		EE	
2200	15651.0	X	X	X		X EE	//17390
2200	17390.0	X	X	X		X EE	//15651
2200	6960.0	?		?		EE	//8152
2200	8152.0	?		?		EE	//6960
2300	17200.0					X EE	
2300	15651.0	X	X	X		X EE	//17390
2300	17390.0	X	X	X		X EE	//15651

M8 CW CUT NUMBERS STATIONS BY TIME/FREQ (updated: 25 April 1999)

UTC	KHZ	M	T	W	T	F	S	S
=====	=====	=	=	=	=	=	=	=
0100	4506				X			
0100	6850					X		
0200	4016				X			
0200	5116					X		
0200	5419	X				X	X	
0200	5758		X					
0300	4016	X					X	
0300	4028		X			X		X
0300	4479						X	
0300	4506			X				X
0300	5419				X			
0300	5758				X			

0400	3244				X
0400	4016		X		
0400	4034			X	
0400	4506		X		
0400	9062				X
0500	7630				X
0500	9062				X
0500	10127			X	
0700	9064				X
0700	9153	X	X	X	
0700	9238	X	X	X	
0800	8079	X			
0800	8089			X	
0800	8095	X	X	X	
0800	8136	X			
0800	10237				X
0900	9238			X	
0900	10127	X	X		
0900	10448	X			
1000	9153	X		X	
1000	9238	X			
1000	10714		X		
1100	4173	X	X	X	
1100	4328	X			
1100	4478	X	X	X	
1100	6797		X		
1100	6854		X		
1100	7846	X	X		
1100	10127	X	X	X	
1100	10345	X	X		
1100	10446	X	X		
1100	10714		X		
1200	4508		X		
1200	6767			X	?
1200	6797	X	X	X	X
1200	6825		X		
1200	6854		X		
1200	6866			X	
1200	6933	X	X	X	
1200	6982	X			
1200	7890	X			
1200	7997				X
1200	8135			X	
1300	6786				X
1300	6854		X		
1300	6866			X	
1300	6932	X		X	
1300	6982	X			X

1300	7320				X	
1300	7890	X		X		X
1300	10566				X	
1400	7890					X X
2300	4506				X	

V2 ATENCION STATIONS BY TIME/FREQ (updated: 25 April 1999)

UTC	KHZ	M	T	W	T	F	S	S	NOTES
=====	=====	=	=	=	=	=	=	=	=====
0000	12215						X		
0100	3389		X						
0100	3926							X	
0100	6768					X			
0100	6778		X						
0200	3245							X	
0200	3292		X						
0200	4029					X			
0200	5762						X		
0200	7887							X	
0200	9024			X					
0200	12215					X			
0300	4174	X							
0300	4479			X					
0300	6855	X							
0300	7555							?	
0300	10236	X							
0300	11566					X			
0400	4035	X							
0400	4479					X			
0400	6768	X							
0400	10120		X						
1000	4028	X			X				
1000	10510	X							
1100	4028	X							
1100	4036			X					
1100	4507				X				
1100	6933						X		
1100	6984				X				
1100	8186				X				
1100	9095	X							

Numbers + Oddities Newsletter LOG COLUMN MAY 1999

#####

Jascha Ruesseler
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#####

Howdy, welcome to the number station logbook.

Our log format is as follows:

FREQ c/s Station Enigma-Code rest in free format should include time, date, mode, details and initials. (and maximally one space in between the entries !)

Sorry for the "messy" format, but that depends on your input. It is simply too much work to edit all the logs to get a proper log section. For the planned database, you HAVE to keep to the defined format, anyway. Stay tuned to spooks for more on that.

This will be the last log column prepared by me. We need someone who regularly updates the new database and prepares a monthly update file and a report which can be included in the newsletter. I can't do it because i have to prepare for my ph.d. examination and start a new job afterwards. No time for the hobby, sorry. Contact Ary for more info.

I will stay tuned to spooks and WUN, anyway. Bye, bye, and don't forget that old ham-wisdom:

Listen, listen, then listen again...

Jascha

TCS = the Counting Station

LP = Lincolnshire Poacher

CR = Cherry Ripe

3245 Atencion/V2a 0200 Sun 4/25/99 YL/SS barely audible through static. (JM4)
3292 Atencion/V2a 0200 Tue 5/18/99 YL/SS very weak w/static QRM (JM4)
3927 Atencion/V2a 0100 Sun 5/2/99 YL/SS rptg A 08503 34643 __221 5FG. (JM4). 0100 Sun 5/9/99 YL/SS rptg A 81502 51141 03223 5FG. (JM4)
Atencion/V2a 0100 Sun 4/25/99 YL/SS barely audible through ham QRM. (JM4)
4016 M8 SAT 051599 0300Z (BR). THU 052099 0200Z (BR)
THU 052099 0200Z (BR)
4027 M8 FRI 051499 0300Z (BR), SUN 051699 0300Z (BR)
FRI 052199 0300Z (BR), FRI 052199 0300Z (BR)
4034 M8 SAT 051599 0400Z (BR)
4478 M8 SAT 051599 0300Z (BR)
4505 M8 THU 052099 0100Z (BR), SUN 051699 0300Z (BR)
THU 052099 2300Z (BR), THU 052099 2300Z (BR)
4638 German Lady (G7) 2052 (051799) AM Sked 703 key 1831 gc 52 (DR)

4640 //5046 E5 FRI 052199 0000Z (BR), //5046 E5 FRI 052199 0000Z (BR)
 TCS/E5 0000 Thu 5/20/99 YL/EE rptg 410 Count 145 3/2FG. (JM4)
 //5046 TCS/E5 0000 Wed 5/19/99 YL/EE rptg 410 Count 145 3/2FG.
 (JM4) //5046 TCS/E5 0000 Sat 5/15/99 YL/EE rptg 410 Count 145
 3/2FG. (JM4). //5046 TCS/E5 0000 Fri 5/14/99 YL/EE 3/2FG in
 progress. (JM4). //5046 TCS/E5 0000 Mon 5/10/99 YL/EE rptg 520
 Count 113 3/2FG. (JM4)
 4670 // 5812 E5 FRI 052199 0000Z (BR). //5812 E5 FRI 052199 0000Z
 (BR). TCS/E5 0000 Thu 5/20/99 YL/EE rptg 094 Count 187 3/2FG.
 USB. (JM4). //5812 TCS/E5 0000 Sun 5/23/99 YL/EE rptg 817 Count
 72 3/2FG.(JM4)
 5116 M8 FRI 051499 0210Z (BR). FRI 052199 0200Z (BR). FRI 052199
 0200Z (BR)
 5145 E-06 RUSSIAN MAN 21.05 05/12/99 WED IN PROGRESS REPEAT OF 20.04
 (SG). E-06 RUSSIAN MAN 21.00 05/13/99 THU REPEAT OF 05/12/99 (SG)
 5170 Phonetic Alphabet-NATO (E10a) 2216 (050199) USB id KPA2 (DR)
 5210 3 note (G04), 2035Z, 040499, 65214 75458 20154... 27gr (hfd)
 5310 3 note (G04), 2005Z, 040499, 65214 75458 20154... 27gr (hfd)
 5419 M8 THU 052099 0315Z (BR), THU 052099 0315Z (BR)
 5435 MOSSAD/E10 0300 Thu 5/20/99 YL/EE rptg ART 5LG. (JM4)
 MOSSAD/E10 0300 Tue 5/18/99 YL/EE rptg ART 5LG. (JM4)
 MOSSAD/E10 0300 Wed 5/19/99 YL/EE rptg ART 5LG. (JM4)
 MOSSAD/E10 0300 Fri 5/14/99 YL/EE rptg ART 5LG. (JM4)
 MOSSAD/E10 0300 Sun 5/2/99 YL/EE rptg ART 5LG. (JM4)
 MOSSAD/E10 0300 Sun 5/9/99 YL/EE rptg ART 5LG. (JM4)
 MOSSAD/E10 0300 Sun 4/25/99 YL/EE rptg ART2 then down. (JM4)
 MOSSAD/E10 0300 Thu 4/22/99 YL/EE rptg ART 5LG. (JM4)
 MOSSAD/E10 0300 Sat 4/24/99 YL/EE rptg ART 5LG. (JM4)
 5470 G4 Thu 052099 2020Z 5NG GG/YL USB (FvG)
 Three Note Oddity (G4) 2035 (051699) AM (DR)
 3 Note (G04), 2035z, 050299, (AK)
 5570 G4 Thu 052099 1945Z 5NG GG/YL USB (FvG)
 Three Note Oddity (G4) 2006 (051699) AM (DR)
 3 Note (G04), 2005z, 050299, (AK)
 5640 Three Note Oddity, 0444-, presumed the one w/ GG W 5FG
 2x in progress, poor. (22-Apr-99) (ANUS)
 5758 M8 FRI 052199 0300Z (BR). FRI 052199 0300Z (BR)
 5762 Atencion/V2a 0200 Sat 5/15/99 YL/SS rptg A 38481 38552 46563
 5FG. (JM4). Atencion/V2a 0200 Sat 5/1/99 YL/SS 5FG in progress
 (JM4). Atencion/V2a 0200 Sat 5/8/99 YL/SS rptg A 48843 80623
 46562 5FG. (JM4). Atencion/V2a 0200 Sat 4/24/99 YL/SS unreadable
 (JM4).
 5800 Atencion/V2a 0300 Mon 5/17/99 YL/SS 5FG in progress. Using LSB
 mode.(JM4)
 5830 5f < ==000 (M03), 1630Z, 041499, 287/00 (short 0) (hfd)
 5840 E-06 RUSSIAN MAN 20.04 05/12/99 WED 713,217,21 ENDED 217,217
 21,21 0,0,0,0,0 (SG). E-06 RUSSIAN MAN 20.01 05/12/99 THU
 713,217,21 REPEAT OF 05/12/99 ENDED 217,217 21,21 0,0,0,0,0 (SG)

6270 //7760 MOSSAD/E10 0100 Thu 5/20/99 YL/EE rptg ULX 5LG. (JM4)
 //7760 MOSSAD/E10 0100 Sat 5/15/99 YL/EE rptg ULX 5LG. (JM4)
 //7760 MOSSAD/E10 0100 Thu 5/13/99 YL/EE rptg ULX 5LG. (JM4)
 //7760 MOSSAD/E10 0100 Fri 5/14/99 YL/EE rptg ULX 5LG. (JM4)
 //7760 MOSSAD/E10 0100 Sat 5/8/99 YL/EE rptg ULX 5LG. (JM4)
 //7760 MOSSAD/E10 0100 Sun 5/9/99 YL/EE rptg ULX 5LG. (JM4)
 //7760 MOSSAD/E10 0100 Sun 4/25/99 YL/EE rptg ULX 5LG. (JM4)
 6485 E-03 LP 17.04 05/20/99 THU 49788 V.WEAK (SG)
 6507 Swedish Rhapsody (E23) 1303 (051799) USB In progress (DR)
 6645 Eastern Music Station (V8) 1804 (050899) AM Poor modulation,
 music, Arabic numbers, male voice ? (DR)
 6768 Atencion/V2a 0100 Sat 5/15/99 YL/SS 5FG in progress. (JM4)
 Atencion/V2a 0100 Sat 5/8/99 YL/SS rptg A 48843 80623 46562
 5FG. (JM4)
 6825 M8 THU 052099 1200Z (BR). THU 052099 1200Z (BR)
 6839 CW UNID Spook, 0100-0330+, continuous 25 wpm 5LG 1x, no breaks
 of any kind noted in several hours. Not on next night. (21-
 Apr-99) (ANUS)
 6840 Mossad (E10) 2231Z (18.05.99) AM id EZI2 //9130 (SD)
 6854 M8 WED 051999 1200Z (BR)
 6866 M8 FRI 051499 1200Z (BR)
 6932 M8 TUE 051899 1300Z (BR)
 6945 Czech Lady 'Control' (S17) 1254 (050199) USB msg group:69035 (DR)
 Czech Lady 'Control' (S17) 1250 (050299) USB msg group:69034 (DR)
 Czech Lady 'Control' (S17) 1252 (050899) USB msg group:83035 (DR)
 Czech Lady 'Control' (S17) 1251 (051599) USB msg group:89034
 possibly, very weak (DR)
 Czech Lady 'Control' (S17) 1251 (051799) USB very weak (DR)
 6957 German Lady (G7) 2017 (042699) AM In progress 000 000 at 2021
 (DR)
 6959 LP (E3) 2236Z (18.05.99) USB in progress //9251 (SD)
 7337 LP (E3) 2206Z (19.05.99) USB id 14811 //9251 (SD)
 7555 V2 SUN 051699 0300Z (BR)
 Atencion/V2a 0300 Sun 5/2/99 YL/SS rptg A 28805 24422 64562 5FG
 (JM4). Atencion/V2a 0300 Sun 5/9/99 YL/SS rptg A 28808 24423
 64563 5FG. (JM4). Atencion/V2a 0300 Sun 4/25/99 YL/SS rptg A
 28802 24421 64561 5FG. (JM4)
 7760 MOSSAD/E10 0100 Wed 5/19/99 YL/EE rptg ULX 5LG. (JM4)
 MOSSAD/E10 0100 Sun 5/2/99 YL/EE rptg ULX 5LG. (JM4)
 MOSSAD/E10 0100 Thu 4/22/99 YL/EE rptg ULX 5LG. (JM4)
 7854 Atencion/V2a 0100 Sun 5/2/99 YL/SS barely audible. (JM4)
 7887 Atencion/V2a 0200 Sun 5/2/99 YL/SS rptg A 28805 24422 64562
 5FG (JM4). Atencion/V2a 0200 Sun 5/9/99 YL/SS rptg A 28808
 24423 64563 5FG (JM4). Atencion/V2a 0200 Sun 4/25/99 YL/SS rptg
 A 28802 24421 64561 5FG. (JM4)
 7918 MOSSAD/E10 0200 Sun 5/23/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Tue 5/18/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Wed 5/19/99 YL/EE rptg YHF 5LG. (JM4)

MOSSAD/E10 0200 Sat 5/15/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Thu 5/13/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Fri 5/14/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Sat 5/1/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Sun 5/2/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Sat 5/8/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Sun 5/9/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Sun 4/25/99 YL/EE rptg YHF 5LG. (JM4)
 MOSSAD/E10 0200 Sat 4/24/99 YL/EE rptg YHF 5LG. (JM4)
 8085 E-05 TCS 17.02 05/20/99 THU 293 V.STRONG (SG)
 //9219 TCS (E5) 1705 (042299) USB id 850 count 109 (DR)
 //9219 TCS (E5) 1700 (051799) USB id 850 count 109 (DR)
 E-05 TCS 17.05 10/05/99 MON 850 V.STRONG (SG)
 E-05 TCS 17.02 03/05/99 MON 850 (SG)
 8180 E-06? 14.58 03/05/99 MON ENDED 50,50 0,0,0,0,0 (SG)
 8188 Swedish Rhapsody (E23) 1208 (051799) USB In progress (DR)
 8189 English Man (E7) 2010 (042699) AM Sked 919 Null msg format (DR)
 8300 New Star Broadcasting/V13 1400 Tue 5/18/99 YL/CC 4FGx2 (JM4)
 8464 E-03 LP 17.05 05/20/99 THU 48788 (SG)
 9130 //11565 MOSSAD/E10 0100 Sat 5/8/99 YL/EE rptg EZI 5LG. (JM4)
 //11565 MOSSAD/E10 0100 Sun 5/9/99 YL/EE rptg EZI 5LG. (JM4)
 9197 XPH, 2014-2015*, polytone station, slowly varying tones to
 2015 short burst of fast tones (null msg?) then gone. (20-
 Apr-99) (ANUS)
 9219 E-05 TCS 17.01 05/20/99/ THU 293 82 V.STRONG (SG)
 E-05 TCS 17.04 10/05/99 MON 850 COUNT 109 V.STRONG (SG)
 E-05 TCS 17.01 03/05/99 MON 850 109 (SG)
 9220 English Man (E6) 2021 (051799) AM In progress (DR)
 9251 E-03 LP 18.05 03/05/99 MON 77143 Jammed (SG)
 9270 Mossad (E10) 0549Z (22.04.99) AM w/ msg SYN2 (SD)
 9331 Spanish Lady (V2) 0640Z (10.05.99) AM in progress w/ 3x Finals
 (SD)
 9355 English Man (E6) 1931 (051699) AM In progress key 173 gc 84 (DR)
 9982 English Man (E7) 2002 (042699) AM Sked 919 Null msg format (DR)
 10180 The English Lady/E17 0400 Sat 5/15/99 YL/EE rptg 946 then 147
 147 86 86 and into 5FGx2. May repeat tonight. (JM4)
 10236 Atencion/V2a 0300 Mon 5/17/99 YL/SS 5FG in progress. (JM4)
 10278 Spanish Man (V7) 2005 (050799) AM null msg format (DR)
 Spanish Man (V7) 2003 (051499) AM Sked 749 null msg format (DR)
 10423 //15822 TCS (E5) 1601 (051699) USB id 957 count 185 (DR)
 TCS (E5) 2205 (051699) USB id 280 count 193 (DR)
 10426 LP/E3 1500 Tue 5/18/99 YL/EE extremely weak. (JM4)
 Atencion/V2a 0300 Wed 5/19/99 YL/SS rptg A 28809 64063 48541
 5FG. (JM4)
 10583 E-05 TCS 21.00 05/12/99 103 COUNT 174 V.STRONG (SG)
 10642 Slovak Man (S10e) 1300 (050799) USB 31579-88/20 46455-71/18
 18579-92/16 85542-90/17 (DR). Slovak Man (S10e) 1300 (050899)
 USB 66417-82/19 58980-09/17 77950-07/16 69741-46/18 (DR)

Slovak Man (S10e) 1301 (051199) USB 86326-05/17 51017-73/16
64022-94/19 84201-68/18 (DR)

10665 // 11491 V5 THU 052099 0315Z (BR). //11491 V5 THU 052099
0315Z (BR). //11491 TCS/V5 0300 Thu 5/20/99 YL/SS rptg 065
Grupo 121 3/2FG. (JM4). //11491 TCS/V5 0300 Mon 5/17/99 YL/SS
rptg 065 Grupo 121 3/2FG. (JM4). //11491 TCS/V5 0300 Thu
4/22/99 YL/SS rptg 038 Grupo 152 3/2FG. (JM4)

10713 Spanish Man (V7) 0600Z (18.05.99) AM call-up 725 header 2784 gr
131 (SD). Spanish Man (V7) 2012 (050499) AM Sked 725 null msg
format (DR). Spanish Man (V7) 0602 (051199) AM Sked 725 null
msg format (DR). Spanish Man (V7) 0600 (051399) AM Sked 725 (DR)
Spanish Man (V7) 0602 (051799) AM Sked 725 key 2784 gc 131 (DR)
Spanish Man (V7) 0600Z (06.05.99) AM call-up 725 header 1624 grp
149 (SD). Spanish Man (V7) 0600Z (13.05.99) AM call-up 725 null
msg (SD). Spanish Man (V7) 0600Z (04.05.99) AM w/ call-up 725
null msg 000 (SD)

10740 Two-Letter German/G16 0400 Sun 5/23/99 YL/GG rptg Whiskey Lima
w/electronic tune. At 0405, ...522 522 57 gruppen... Achtung!
and into 3/2FGx2. Down at :12 w/ende. (JM4)

10774 English Man (E7) 2011 (051799) AM Sked 172 Null msg format (DR)

10893 High Pitched Polytone (XPH) 0600Z (19.04.99) AM (SD)
High Pitched Polytone (XPH) 0600Z (23.04.99) AM (SD)

11072 E-05 TCS 18.01 05/20/99 THU 993 126 STRONG (SG)
//13465 TCS (E5) 1805 (051699) USB id 993 count 126 (DR)
E-05 TCS 18.03 09/05/99 SUN 993 GOOD (SG)

11107 Spanish Man (V7) 0600Z (22.04.99) AM w// call-up 124 id 4961
grp 120(SD)

11270 Russian Man 'control' (S25) 0822 (051799) AM sked 615 msg
groups: 74754 71744 (DR)

11491 //14421 E5 THU 052099 0100Z (BR). //14421 E5 THU 052099 0200Z
(BR). //14421 E5 FRI 052199 0200Z (BR). E5 FRI 052199 0315Z -
carrier only then short tone (BR). //14421 E5 THU 052099 0200Z
(BR). //14421 E5 FRI 052199 0200Z (BR). E5 FRI 052199 0315Z -
carrier only then short tone (BR). //14421 TCS/E5 0100 Thu 5/20
/99 YL/EE rptg 259 Count 77 3/2FG. (JM4) //14421 TCS/E5 0200 Thu
5/20/99 YL/EE rptg 295 Count 70 3/2FG. (JM4) //14421 TCS/E5 0100
Sun 5/23/99 YL/EE rptg 259 Count 77 3/2FG. (JM4) //14421 TCS/E5
0200 Sun 5/23/99 YL/EE rptg 295 Count 70 3/2FG. (JM4) //14421
TCS/E5 0200 Tue 5/18/99 YL/EE rptg 803 Count 143 3/2FG. (JM4)
TCS (E5) 2001 (050799) USB id 276 (DR). TCS (E5) 2015 (051499)
USB In progress (DR). //14421 TCS/E5 0200 Wed 5/19/99 YL/EE rptg
295 Count 70 3/2FG. (JM4). //14421 TCS/E5 0100 Sat 5/15/99 YL/EE
rptg 047 Count 235 3/2FG. (JM4). //14421 TCS/E5 0200 Sat 5/15/99
YL/EE rptg 422 Count 235 3/2FG. (JM4). //14421 TCS/E5 0100 Mon
5/17/99 YL/EE 3/2FG in progress. (JM4) //14421 TCS/E5 0200 Mon
5/17/99 YL/EE rptg 214 Count 207 3/2FG. (JM4) //14421 TCS/V5
0200 Thu 5/13/99 YL/SS rptg 729 Grupo 235 (Yes 235!) 3/2FG.
Note new schedule. (JM4)

11554 High Pitched Polytone (XPH) 0600Z (18.05.99) AM (SD)
 Polytone Station (XP) 0602 (051199) AM ~130s msg (DR)
 Polytone Station (XP) 0600 (051499) AM Null msg format (DR)
 Polytone Station (XP) 0603 (051799) AM In progress (DR)
 11565 MOSSAD/E10 0100 Sat 5/1/99 YL/EE rptg EZI 5LG. (JM4)
 MOSSAD/E10 0100 Sun 5/2/99 YL/EE rptg EZI 5LG. (JM4)
 MOSSAD/E10 0100 Sun 4/25/99 YL/EE rptg EZI 5LG. (JM4)
 MOSSAD/E10 0100 Thu 4/22/99 YL/EE rptg EZI 5LG. (JM4)
 11566 V2 FRI 051499 0305Z (LATE START) (BR). V2 FRI 052199 0300Z (BR)
 V2 FRI 052199 0300Z (BR)
 12093 High Pitched Polytone (XPH) 0620Z (23.04.99) AM (SD)
 12134 Six Notes (X6) 1503 (050899) AM Beeps (DR)
 12135 V2 THU 052099 0205Z (BR). V2 THU 052099 0205Z (BR)
 Atencion/V2a 0200 Thu 5/13/99 YL/SS 5FG in progress. Note new
 time/frequency. 10217 silent. (JM4)
 12165 Atencion/V2a 0200 Mon 5/17/99 YL/SS 5FG in progress. (JM4)
 12178 English Man (E7) 2003 (051799) AM Sked 172 Null msg format (DR)
 12180 English Man (E6) 2002 (050799) AM Sked 129 key 358 gc 64 (DR)
 Atencion/V2a 0200 Wed 5/19/99 YL/SS rptg A 28809 64063 48541
 5FG. (JM4)
 12197 TCS (E5) 2003 (051799) USB id 384 count 60 (DR)
 12213 Spanish Man (V7) 0626Z (18.05.99) AM call-up 725 header 2784
 grp 131 (SD). Spanish Man (V7) 0628 (051799) AM Sked 725 (DR)
 Spanish Man (V7) 0629Z (06.05.99) AM call-up 725 header 1624 grp
 149 (SD). Spanish Man (V7) 0610Z (13.05.99) AM call-up 725 null
 msg carrier til 0644Z (SD). Spanish Man (V7) 0610Z (04.05.99)
 AM call-up 725 null msg 000 (SD)
 12215 V2 FRI 051499 0210Z (BR). V2 FRI 052199 0200Z (BR). V2 FRI
 052199 0200Z (BR). Atencion/V2a 0000 Sat 5/15/99 YL/SS 5FG in
 progress. (JM4) Atencion/V2a 0200 Fri 5/14/99 YL/SS 5FG in
 progress. (JM4)
 12603 E-03 LP 18.05 05/20/99 THU 83643 JAMMED (SG). //14487//16314
 LP/E3 1400 Tue 5/18/99 YL/EE rptg 29936 5FGx2. (JM4). E-03 LP
 14.03 03/05/99 MON 40581 Poor rtty type qrm (SG)
 12634 Atencion/V2 0200 Thu 5/20/99 YL/SS 5FG in progress. (JM4)
 13350 E17 0300z (Sat 051599) AM YL/EE rptg 946 then 147 147 86 86
 into 5FGx2 77862 42814 05691 ... 147 147 86 86 00000 (GMH)
 13375 //15682 LP/E3 1600 Tue 5/18/99 YL/EE extremely weak. (JM4)
 13398 Polytone Station (XP) 2021 (051499) AM ~120s msg (DR)
 13436 Atencion/V2a 0100 Thu 5/19/99 YL/SS rptg 36853 15121 51353 5FG
 (JM4). Atencion/V2a 0100 Thu 5/13/99 YL/SS 5FG in progress (JM4)
 Atencion/V2a 0100 Thu 4/22/99 YL/SS rptg A 63491 13543 65152
 5FG (JM4)
 13444 E5 SAT 051599 1800Z (BR). //14905 TCS (E5) 1803 (051799) USB
 id 613 count 192 (DR). E-05 TCS 18.05 05/16/99 SAT 613 COUNT
 192 V.POOR (SG). E-05 TCS 18.00 10/05/99 MON 613 (SG). E-05
 TCS 18.02 03/05/99 MON 6?3 192 NOT 100% SURE OF COUNT (SG)
 13450 E-05 TCS 17.05 05/21/99 FRI 550 101 WEAKE (SG). TCS (E5) 1702

(051699) USB id 550 (DR). E-05 TCS 17.04 09/05/99 SUN 616
COUNT 172 HEAVY JAMMING (SG). V5 0103z (Wed 051299) AM YL/SS
rptg 719 719 719 1234567890 until 0110, grupo ??? and into
3/2Fgx (GMH)

13452 M42 FAPSI JMS TUE 051899 2242Z 2/456 MSGS (BR). //15651 V5
WED 051999 0100Z (BR). //15651 TCS/V5 0100 Wed 5/19/99 YL/SS
rptg 719 Grupo 207 3/2FG. (JM4). //15651 TCS/V5 0100 Fri
5/14/99 YL/SS rptg 719 Grupo 207 3/2FG. (JM4)

13454 High Pitched Polytone (XPH) 0620Z (18.05.99) AM (SD)

13455 V2a 0106 (Thu 052099) AM YL/SS rptg 5Fg in progress (GMH)
E17 0200z (Tue 051899) AM YL/EE rptg 804 then 396 396 104 104
into a 5Fgx2 repeat of Monday's msg (53146 37351....) (GMH)
E17 0200z (Mon 051799) AM YL/EE rptg 804 then 396 396 104 104
and into a 5Fgx2 repeat of April 26 msg (53146 37351....) (GMH)
V2a 0100z (Thu 050699) AM YL/SS rptg Atencion too weak to
copy. Three finals at 0141 (GMH)
V2a 0100z (Thu 051499) AM YL/SS rptg Atencion 36851 01113
51352 into 5Fgx1 three finals at 0146, pause, followed by
appx 15 sec tone (GMH)
V2a 0102Z (042299) AM SS/YL rptg Atencion 63491 13543 65152
into 5Fg " three finals. ""Siete"" not too popular in the
rotation," " but the kids must love ""nueve"": at least one
9999 (GMH)"
V2a 0100Z (041599) AM SS/YL rptg Atencion 32392 13542 65151
into 5Fg .I believe this corresponds to JM4's log at 13426
kHz (GMH). V5 0100Z (041499) AM SS/YL rptg 018 x3 0123456789
for 10 minutes, 10 tones and into 3/2 fg. Repeat grupo 224 at
0129, lost it at 0139 (GMH).

13465 E-05 TCS 18.03 05/20/99 THU 993 WEAK (SG)
E-05 TCS 18.00 09/05/99 SUN 993 WEAK (SG)

13513 Spanish Man (V7) 0652Z (18.05.99) AM call-up 725 header 2784
grp 131 (SD). Spanish Man (V7) 0657Z (06.05.99) AM call-up 725
header 1624 grp 149 (SD)

13533 MOSSAD (E10) 1701 (050899) USB id EZI (DR). MOSSAD/E10 0100
Wed 5/19/99 YL/EE rptg EZI2 then down. (JM4) MOSSAD/E10 0100
Sat 5/15/99 YL/EE rptg EZI2 then down.(JM4)

13556 M42 FAPSI HZW TUE 051899 2011Z 1/420 MSG (BR)

13893 High Pitched Polytone (XPH) 0640Z (23.04.99) AM (SD)

13894 Polytone Station (XP) 0640 (042799) AM ~140s msg (DR)
Polytone Station (XP) 0640 (043099) AM ~150s msg (DR)

13906 TCS (E5) 1233Z (16.05.99) AM in progress (SD). //15732 E5 WED
051999 1200Z (BR). E-05 TCS 12.03 12/05/99 WED 699 V.P00R (SG)

13950 E5? 1211Z (041199) AM EE/YL rptg 3/2 fg, 5? tones, 3/2 fg
continue to 1250 with abrupt end. Carrier up until 1302. This
was so strong it sounded like it was coming from the basement.
Transmitter test? (GMH)

13980 P7X SAT 051599 1630Z WKG ANOTHER STN (BR)

14421 TCS (E5) 0100Z (18.05.99) AM id 548 count 139 //11491 (SD)

TCS (E5) 0225Z (18.05.99) AM in progress //11491 (SD)
 TCS (E5) 0213Z (19.05.99) AM in progress count 70 //11491 (SD)
 14448 E-05 TCS 17.04 05/21/99 FRI 550 WEAK (SG)
 E-05 TCS 17.00 09/05/99 SUN 616 COUNT 172 (SG)
 14487 E-03 LP 13.06 05/20/99/ THU 63505 JAMMED (SG)
 E-03 LP 18.06 05/20/99 THU 83643 JAMMED (SG)
 //15682//16084 LP/E3 1300 Thu 5/20/99 YL/EE rptg 63505 5FGx2
 (JM4). E-03 LP 12.04 10/05/99 MON 77143 JAMMED (SG). E-03 LP
 12.04 11/05/99 TUE 77143 JAMMED (SG). E-03 LP 13.06 03/05/99
 MON 66095 Jammed (SG). E-03 LP 14.01 03/05/99 MON 40581 (SG)
 14565 //17390 E5 THU 052099 1200Z (BR) NEW
 //17390 E5 THU 052099 1200Z (BR) NEW
 14577 // 16198 E5 WED 051999 1200Z (NEW //) (BR)
 14654 High Pitched Polytone (XPH) 0640Z (18.05.99) AM (SD)
 Polytone Station (XP) 0640 (051199) AM ~130s msg (DR)
 14731 M42 FAPSI BPA TUE 051899 1515Z NO TFC (BR)
 14739 E5 TUE 051899 1300Z (BR). //16198 TCS (E5) 1305 (051599) USB
 id 910 count 215 (DR). E-05 TCS 13.04 11/05/99 TUE 910 COUNT
 215 WEAK (SG)
 14843 M42 FAPSI JMS MON 042699 2230Z NO TFC (BR)
 M42 FAPSI JMS MON 050399 2230Z NO TFC (BR)
 M42 FAPSI JMS TUE 051899 2230Z 2/456 MSGS (BR)
 M42 FAPSI JMS WED 051999 2230Z NO TFC (BR)
 JMS M42 THU 052099 2230Z NO TFC (BR)
 JMS M42 THU 052099 2230Z NO TFC (BR)
 14890 Russian Man 'control' (S25) 0802 (051799) AM sked 615 msg
 groups: 77434 76754 (DR)
 14941 M42 FAPSI WNY SAT 050899 1815Z IN PROG (BR)
 M42 FAPSI WNY TUE 051899 1811Z 1/420 MSG (BR)
 14960 Russian Man (S6) 1702 (050899) AM Sked 275 Northern Russian
 voice (DR)
 15500 E17 0115Z (042099) AM EE/YL in progress 5Fg x2 ends 396 396
 104 104 00000 at 0122, down a minute later (GMH)
 15651 TCS (V5) 0105Z (19.05.99) AM id 719 count 207 (SD). E5 WED
 015999 1200Z (NEW) (BR). //17390 E5 WED 051999 2300Z (BR)
 //17390 TCS/E5 2300 Thu 5/20/99 YL/EE rptg 295 Count 70 3/2FG
 (JM4). //17390 E5 THU 052099 2300Z (BR). //17390 FRI 052199
 1200Z (BR) NEW. //17390 E5 THU 052099 2300Z (BR). //17390
 FRI 052199 1200Z (BR) NEW. //17390 TCS/E5 2200 Wed 5/19/99
 YL/EE rptg 259 Count 77 3/2FG. (JM4). //17390 TCS/E5 2300 Wed
 5/19/99 YL/EE rptg 295 Count 70 3/2FG. (JM4). //17390 TCS/E5
 2200 Sat 5/22/99 YL/EE rptg 259 Count 77 3/2FG. //17390 TCS/E5
 2300 Sat 5/23/99 YL/EE rptg 295 Count 70 3/2FG. (JM4). //17390
 TCS/E5 2200 Tue 5/18/99 YL/EE rptg 421 Count 135 3/2FG. Note
 new schedule. (JM4). //17390 TCS/E5 2300 Tue 5/18/99 YL/EE
 rptg 803 Count 143 3/2FG. Note new schedule. (JM4)
 15682 E-03 LP 13.10 05/20/99 THU 63505 QRM FROM BROADCAST STATION (SG)
 E-03 LP 12.05 10/05/99 MON 15682 JAMMED + qrm from WWCR 15685(SG)

E-03 LP 12.05 11/05/99 TUE 77143 JAMMED (SG)
 15732 E-05 TCS 12.04 12/05/99 WED 699 215 QRM FROM BC station (SG)
 TCS/E5 12:20 4/25/99 YL/EE msg in progress.s/off at 12:50 (FvG)
 15822 E-05 TCS 17.00 11/05/99 TUE 064 COUNT 109 WEAK (SG)
 E-05 TCS 17.05 12/05/99 WED 064 109 (SG)
 15900 E17 0100z (Tue 051899) AM YL/EE rptg 804 then 396 396 104 104
 into a 5Fgx2 repeat of Monday's msg (53146 37351....) (GMH)
 E10 0100z (Mon 051799) AM YL/EE rptg Echo Zulu India 2 for
 10 minutes and off (GMH)
 E17 0100z (Mon 051799) AM YL/EE rptg 804 then 396 396 104 104
 and into a 5Fgx2 repeat of April 26 msg (53146 37351....) (GMH)
 16084 E-03 LP 13.06 05/20/99 THU 63505 JAMMED (SG)
 E-03 LP 12.06 10/05/99 MON 77143 JAMMED (SG)
 E-03 LP 12.05 11/05/99 TUE 77143 JAMMED (SG)
 E-03 LP 13.04 03/05/99 MON 66095 Jammed (SG)
 16086 E-05 TCS 11.04 05/20/99 THU 986 215 V.WEAK (SG)
 E-05 TCS 11.10 11/05/99 TUE IN PROGRESS virtually inaudible(SG)
 16198 E-05 TCS 13.05 11/05/99 TUE 910 WEAK (SG)
 16218 M42 FAPSI HZW TUE 051899 2000Z 1/420 MSG (BR)
 16475 E-03 LP 18.07 05/20/99 THU 83643 NO JAMMING
 17200 E5 2200z (Sun 051699) AM YL/EE rptg 125 125 125 1234567890,
 10 tones, count 108 108 into 3/2Fg. Repeat at 2220 and "End
 at 2230 (GMH). E5 2300z (Sun 051699) AM YL/EE rptg 214 214 214
 1234567890, 10 tones, count 207 207 into 3/2Fg 047/28 725/30
 ... repeat at 2330 (GMH)
 17400 E17 0200 (Thu 052099) AM YL/EE rptg 243 243 243 00000 off by
 0006 (GMH). V2 2306 (Thu 052099) AM YL/SS rptg 5Fgx1 in progress
 (GMH)
 17416 M42 FAPSI KRN TUE 051899 1735Z NO TFC (BR)
 17499 E-04 CR 12.01 05/20/99 THU 53590 (SG)
 E-04 CR 13.02 05/20/99 THU 91538 (SG)
 //22108 CR/E4 2300 Wed 5/19/99 YL/EE rptg 61931 5FGx2. (JM4)
 E-04 CR 12.00 10/05/99 MON 49639 (SG)
 E-04 CR 13.00 10/05/99 MON 13162 (SG)
 E-04 CR 12.02 11/05/99 TUE 13162 (SG)
 E-04 CR 13.00 11/05/99 TUE 50222 (SG)
 E-04 CR 22.01 05/12/99 64457 GOOD (SG)
 E-04 CR 12.00 12/05/99 WED 50222 (SG)
 CR (E4) 0002Z (07.05.99) USB header 49639 //22108 (SD)
 E-04 CR 12.15 03/05/99 MON WEAK (SG)
 18455 V2 2307Z (040899) AM SS/YL rptg Atencion 018 01 (? noisy)
 ended at 2316, but seemingly up until 2340 (GMH)
 19088 M42 FAPSI WNY TUE 051899 1800Z 1/420 MSG (BR)
 19884 //21866 CR/E4 0100 Thu 5/20/99 YL/EE rptg 39858 5FGx2. (JM4)
 CR (E4) 0123Z (26.04.99) USB in progress //21866 (SD)
 20474 E-04 CR 10.05 11/05/99 TUE 39568 (SG)
 E-04 CR 10.01 03/05/99 MON 24702 V.WEAK (SG)
 21866 CR E4 0113z YL/EE Repeating 5FgsX 2..21 May99[BC3]

CR/E4 0100 Wed 5/19/99 YL/EE rptg __900 5FGx2. Very weak. (JM4)
 CR/E4 0100 Thu 5/13/99 YL/EE rptg 49639 5FGx2. (JM4)
 CR/E4 0100 Fri 5/14/99 YL/EE rptg 13162 5FGx2. (JM4)
 CR/E4 0100 Thu 4/22/99 YL/EE rptg 55795 5FGx2. (JM4)
 22108 E-04 CR 13.05 05/20/99 THU 91538 (SG)
 CR/E4 2300 Tue 5/18/99 YL/EE rptg 14127 5FGx2. (JM4)
 CR/E4 0000 Wed 5/19/99 YL/EE rptg 61931 5FGx2. (JM4)
 E-04 CR 13.03 10/05/99 MON 13162 (SG)
 E-04 CR 13.02 11/05/99 TUE 50222 (SG)
 23461 E-03 LP 11.00 05/21/99 FRI 53590 (SG)
 E-03 LP 12.04 05/21/99 FRI 91538 (SG)
 E-04 CR 11.01 05/20/99 THU 79516 (SG)
 E-04 CR 12.00 05/20/99 THU 53590 (SG)
 E-04 CR 10.00 10/05/99 MON 24702 (SG)
 E-04 CR 11.00 10/05/99 MON 39568 (SG)
 E-04 CR 12.00 10/05/99 MON 49639 (SG)
 E-04 CR 10.03 11/05/99 TUE 39568 (SG)
 E-04 CR 11.05 11/05/99 TUE 49639 (SG)
 E-04 CR 12.00 11/05/99 TUE 13162 (SG)
 E-04 CR 11.00 12/05/99 WED 13162 (SG)
 E-04 CR 12.00 12/05/99 WED 50222 (SG)

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More logs can be viewed at Chris Smolinski's online log-database.

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